abcam

Product datasheet

Recombinant Human DHODH protein ab128451

1 References 1 Image

Description

Product name	Recombinant Human DHODH protein
Purity	> 90 % SDS-PAGE. ab128451 is purified using conventional chromatography techniques (anion exchange and gel filtration)
Expression system	Escherichia coli
Accession	Q02127
Protein length	Protein fragment
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMTGDER FYAEHLMPTL QGLLDPESAH RLAVRFTSLG LLPRARFQDS DMLEVRVLGH KFRNPVGIAA GFDKHGEAVD GLYKMGFGFV EIGSVTPKPQ EGNPRPRVFR LPEDQAVINR YGFNSHGLSV VEHRLRARQQ KQAKLTEDGL PLGVNLGKNK TSVDAAEDYA EGVRVLGPLA DYLVVNVSSP NTAGLRSLQG KAELRRLLTK VLQERDGLRR VHRPAVLVKI APDLTSQDKE DIASVVKELG IDGLIVTNTT VSRPAGLQGA LRSETGGLSG KPLRDLSTQT IREMYALTQG RVPIIGVGGV SSGQDALEKI RAGASLVQLY TALTFWGPPV VGKVKRELEA LLKEQGFGGV TDAIGADHRR
Predicted molecular weight	42 kDa including tags
Amino acids	31 to 395
Tags	His tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab128451** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE

	Mass Spectrometry
Mass spectrometry	MALDI-TOF
Form	Liquid
Additional notes	Not currently tested for endotoxin levels

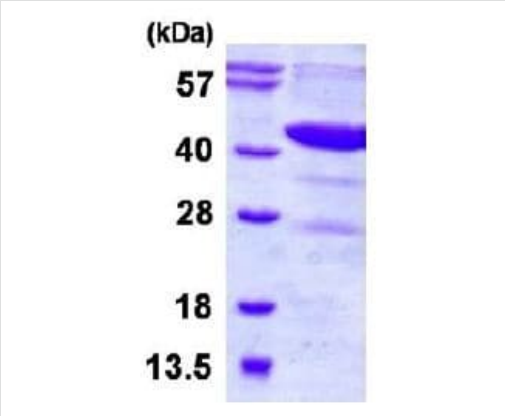
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.02% DTT, 0.32% Tris HCl, 20% Glycerol (glycerin, glycerine), 0.58% Sodium chloride

General Info

Function	Catalyzes the conversion of dihydroorotate to orotate with quinone as electron acceptor.
Pathway	Pyrimidine metabolism; UMP biosynthesis via de novo pathway; orotate from (S)-dihydroorotate (quinone route): step 1/1.
Involvement in disease	Defects in DHODH are the cause of postaxial acrofacial dysostosis (POADS) [MIM:263750]; also known as Miller syndrome. POADS is characterized by severe micrognathia, cleft lip and/or palate, hypoplasia or aplasia of the posterior elements of the limbs, coloboma of the eyelids and supernumerary nipples. POADS is a very rare disorder: only 2 multiplex families, each consisting of 2 affected siblings born to unaffected, nonconsanguineous parents, have been described among a total of around 30 reported cases.
Sequence similarities	Belongs to the dihydroorotate dehydrogenase family. Type 2 subfamily.
Post-translational modifications	The uncleaved transit peptide is required for mitochondrial targeting and proper membrane integration.
Cellular localization	Mitochondrion inner membrane.

Images



SDS-PAGE - Recombinant Human DHODH protein (ab128451)

15% SDS-PAGE showing ab128451 at approximately 42.3 kDa (3µg).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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